

EXECUTIVE SUMMARY

Prepared - June 7, 1993
Revised - May 2, 2000

Mine Name: <u>ECDC Clay Project</u>	I.D. No: <u>M/015/062</u>
Operator: <u>ECDC-Environmental</u>	County: <u>Emery</u>
<u>1111 West Highway 123, P. O. Box 69</u>	New/Existing: <u>Existing</u>
<u>East Carbon, Utah 84520</u>	Mineral Ownership: <u>Private</u>
	Surface Ownership: <u>Private</u>
Telephone: <u>801/888-4451</u>	Lease No.(s): <u>none</u>
Contact Person: <u>Darin Olson</u>	Permit Term: <u>life of mine</u>
Life of Mine: <u>ten years</u>	

Permitting Action: *This executive summary is the result of a permit amendment to the approved LMO.*

Legal Description: NE 1/4, NW 1/4 and NW 1/4, NE 1/4, Section 1, Township 16 South, Range 11 East and SE 1/4, Section 36, Township 15 South, Range 11 East

Mineral(s) to be Mined: Bentonite Clay

Mining Methods: open pit/quarry mining

Acres to be Disturbed: 25.4

Present Land Use: Grazing and wildlife habitat

Postmining Land Use: Grazing and wildlife habitat

Variances from Reclamation Standards (Rule R647) Granted: R647-4-111.12 Topsoil Redistribution. The Operator will use the limited soil resources to create islands of soil 10-12 inches deep rather than spreading a thin (2-3 inch) layer over entire site. It is believed that this practice will provide better habitat and revegetation potential.

Soils and Geology:

Soil Description: Shallow layers of Chipeta and Persayo soils (poorly developed soils) over mainly Mancos shale and eroding shale outcrop.

pH: unknown at this time, to be provided at a later date.

Special Handling Problems: Clay soils, composted manure will be used to enhance soil properties for final reclamation.

Geology Description: The mine is located at the transition zone between the Dakota Sandstone and the Blue Gate Member of the Mancos Shale.

Hydrology:

Ground Water Description: The ground water table is predicted to be at or near the elevation of the Price River. The excavated clay pits will not be dug deep enough to intercept the groundwater table.

Surface Water Description: No intermittent or perennial streams are located on the site. However, the Price River does flow adjacent to and within 5 feet of a portion of the disturbed area boundary. An ephemeral drainage does cross the site. The operator plans to avoid disturbances to this drainage.

Water Monitoring Plan: None required.

Ecology:

Vegetation Type(s); Dominant Species: shadescale, rabbitbrush, saltbrush, indian ricegrass

Percent Surrounding Vegetative Cover: 20%

Wildlife Concerns: No threatened or endangered species or critical wildlife habitat.

Surface Facilities: Portable onsite crushing and screening facility

Mining and Reclamation Plan Summary:

During Operations:

ECDC will mine a shallow open pit for bentonite clay. The clay will be excavated using D-9 dozers and 988 loader. It will then be crushed and screened, then hauled approximately 18 miles along existing county and state roads to the ECDC landfill near East Carbon, for use as liner material for the ECDC landfill. The operator plans to excavate approximately 130,000 cubic yards of clay in a period of 90 days. Intermittent mining may continue on an as-needed basis following the initial 90 day development/extractive phase.

After Operations:

ECDC will backfill and regrade quarried areas to slopes no steeper than 2h:1v. Roads and pads will be ripped and regraded where appropriate. All reclaimed areas will be mulched, fertilized and reseeded with an approved seed mixture. All structures and equipment will be removed from the site. Portions of the access road leading into the site will be left for post mining access.

Surety:

Amount: \$63,100 (2005 dollars)

Form: Surety Bond

Renewable Term: 5 years